

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)
- 2-4. (Cancelled)
5. (Currently Amended) The process of claim 1 17, wherein the vinylsulfonyl group is provided to the solid carrier by reacting a divinylsulfone compound with an amino group which has been previously placed on the solid carrier.
6. (Currently Amended) The process of claim 1 17, wherein the aqueous medium for washing the solid carrier contains a ~~surface-active-agent~~ sodium dodecyl sulfate.
7. (Cancelled)
8. (Withdrawn) A micro array for analysis of DNA which is prepared by claim 1.
9. (Withdrawn) A process for preparing a micro-array for analysis of DNA which comprises the steps of:

spotting onto a solid carrier in a predetermined area thereof in which a number of amino groups are fixed an aqueous solution which contains a thickening agent comprising a water-soluble polymer selected from the group consisting of carboxymethylcellulose and polyacrylamide and which has a viscosity of 2 to 50 mPa · s and probe molecules having a

phosphoric acid group and the probe molecules being selected from the group consisting of nucleic acid fragments, oligonucleotides and peptide nucleic acids;

spotting onto the solid carrier in an area other than the area in which the aqueous solution was spotted and in which amino groups are fixed an aqueous solution which contains a thickening agent comprising a water-soluble polymer and which has a viscosity of 2 to 50 mPa · s and probe molecules having a phosphoric acid group and the probe molecules being selected from the group consisting of nucleic acid fragments, oligonucleotides and peptide nucleic acids;

incubating the solid carrier having the spotted aqueous solutions on the surface thereby causing reaction for producing electrostatic bondings between the amino groups and the phosphoric acid groups; and

washing the surface of the solid carrier with an aqueous medium to remove all of the thickening agent from the surface of the solid carrier, thereby preparing the micro-array.

10-12. (Cancelled)

13. (Withdrawn) The process of claim 9, wherein the amino group is provided to the solid carrier by treating the solid carrier with an aminosilane coupling agent or a polycation compound.

14. (Withdrawn) The process of claim 9, wherein the aqueous medium for washing the solid carrier contains a surface active agent.

15. (Withdrawn) The process of claim 9, wherein each of the aqueous solutions has a viscosity identical to each other.

16. (Withdrawn) A micro-array for analysis of DNA which is prepared by claim 9.

17. (New) A process for preparing a micro-array for analysis of DNA which comprises the steps of:

spotting an aqueous solution onto a solid carrier in a predetermined area thereof to which a number of vinylsulfonyl groups are fixed, the aqueous solution comprising carboxymethylcellulose, probe molecules having an amino group, the probe molecules being selected from the group consisting of nucleic acid fragments, oligonucleotides and peptide nucleic acids, and water and having a viscosity of 2 to 50 mPa s;

incubating the solid carrier having the spotted aqueous solution on a surface thereof, thereby causing reaction for producing covalent bonding between the vinyl sulfonyl group and the amino group; and

washing the surface of the solid carrier with an aqueous medium to remove all of the carboxymethylcellulose from the surface of the solid carrier, thereby preparing the micro-array.